

## LISTING OF CLAIMS

1. (currently amended) A method for providing synchronization of audio to video comprising the steps of:  
processing a video signal to generate a video output comprising at least one time stamped acoustic identification of the content of the audio associated with the video signal;  
processing an audio signal to generate an audio output comprising at least one time stamped acoustic identification of the content of said audio signal; and  
synchronizing the video signal to the audio signal by adjusting at least one of the signals to align at least one acoustic identification from the video signal with a corresponding acoustic identification from the audio stream signal.
2. (original) The method of Claim 1 wherein said synchronizing comprises applying a Viterbi algorithm to the signals.
3. (original) The method of Claim 1 wherein said synchronizing comprising adjusting the audio signal to cause the acoustic identification from the audio signal to be aligned with the acoustic identification of the video signal.

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4. (original) The method of Claim 1 wherein said processing a video signal comprises the steps of: extracting at least one image from the video signal; detecting at least one feature in said at least one image; analyzing the parameters of said feature; and correlating at least one acoustic identification to the parameters of said feature.

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5. (original) The method of Claim 1 wherein each acoustic identification comprises an articulatory type.

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6. (original) The method of Claim 2 wherein each acoustic identification comprises an articulatory type.

7. (original) The method of Claim 3 wherein each acoustic identification comprises an articulatory type.

8. (original) The method of Claim 4 wherein each acoustic identification comprises an articulatory type and wherein said at least one feature comprises a facial feature.

9. (currently amended) A system for providing synchronization of audio to video comprising:  
a video processing component for processing a video signal to generate a video output comprising at least one time stamped  
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*SAC* acoustic identification of the content of the audio associated with the video signal;

an audio processing component for processing an audio signal to generate an audio output comprising at least one time stamped acoustic identification of the content of said audio signal; and

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*cont* a synchronization component comprising the video signal to the audio signal by adjusting at least one of the signals to align at least one acoustic identification from the video signal with a corresponding acoustic identification from the audio stream signal.

10. (original) The system of Claim 9 wherein said video processing component comprises:

an extraction component for extracting at least one image from the video signal;

a detection component for detecting at least one feature in said at least one image; and

a processing component for analyzing the parameters of said feature and for correlating at least one acoustic identification to the parameters of said feature.

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